

ABSTRACT

This invention is directed to a parallel, control-information generation, distribution and processing system. This scalable, pipelined control and switching system efficiently and fairly manages a plurality of incoming data streams, and applies class and quality of service requirements. The present invention also uses scalable MLML switch fabrics to control a data packet switch, including a request-processing switch used to control the data-packet switch. Also included is a request processor for each output port, which manages and approves all data flow to that output port, and an answer switch which transmits answer packets from request processors back to requesting input ports.